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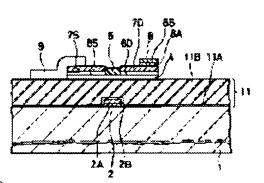
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(54) MANUFACTURE OF THIN-FILM TRANSISTOR MATRIX

(57)Abstract:

PURPOSE: To obtain a good TFT characteristic wherein a gate dielectric withstand voltage is not lowered even when a gate electrode composed of Al or a gate bus line is combined with a gate insulating film composed of an Al2O3 ALD film regarding the manufacturing method of a thin-film transistor matrix. CONSTITUTION: A gate electrode 2 at least the surface of which is constituted of Al and a gate bus line are formed on a transparent insulating substrate 1, a metal film having a thickness capable of befog changed into an insulator by oxidation is formed, the metal film is oxidized inside an atomiclayer deposition film formation apparatus or the metal film is oxidized inside an oxygen plasma ashing apparatus and the metal film is changed into an insulating metal oxide film. Then, an Al2O3 film IIB is laminated on it by an atomic-layer deposition method, a gate insulating film 11 is formed and, after that, an action semiconductor layer 4, a source electrode 7S, a drain electrode 7D, a drain bus line 8 and a pixel electrode 9 are formed sequentially.



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